

## **ABSTRACT OF THE DISCLOSURE**

An apparatus for the enhancement of water quality is provided for purging a low flow area of a subterranean water distribution system. The apparatus can include: a water carrier system for transporting water through the apparatus, a flow control valve for adjusting the flow rate of water through the system; a programmable solenoid controller for activating and deactivating the flow control valve; electronic and/or optical sensing devices for measuring water quality; a data access and programming port; and an electronic control system. The components cooperate to provide a means for automatically measuring water quality and then purging water from the low flow area as required. The apparatus can discharge directly to a below ground drain such as a storm drain, sewer or drain field. Alternatively, the apparatus can have an above ground downwardly directed discharge.